

33333 U.S. PTO
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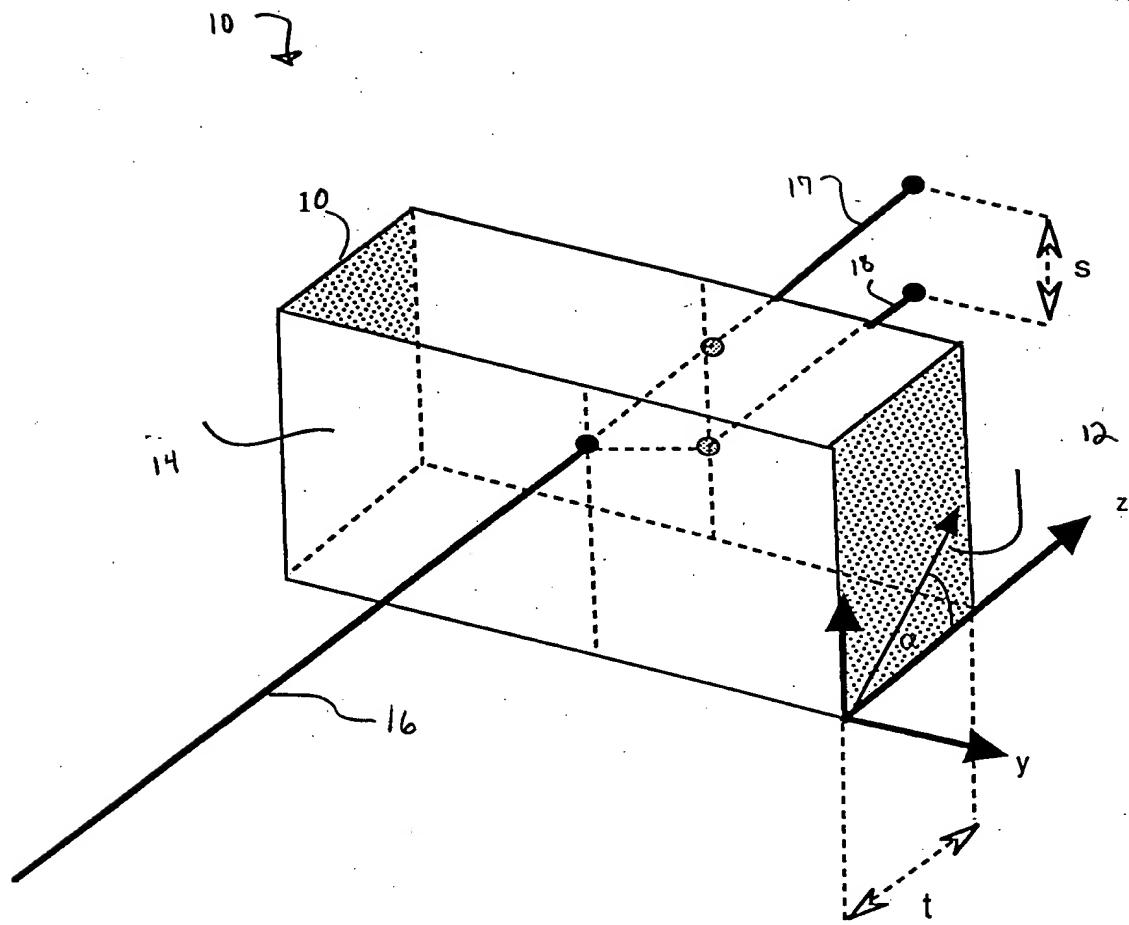


Fig. 1: Double refractor

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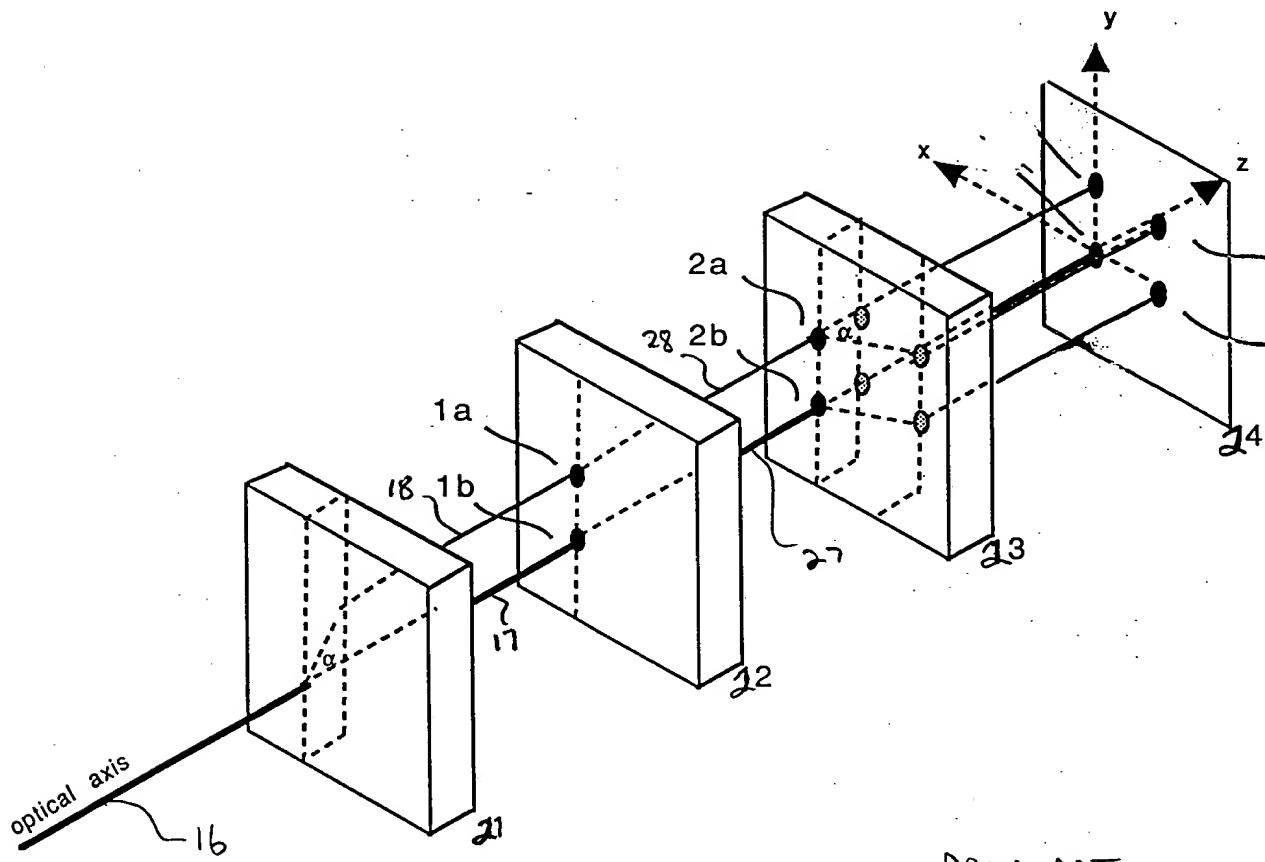
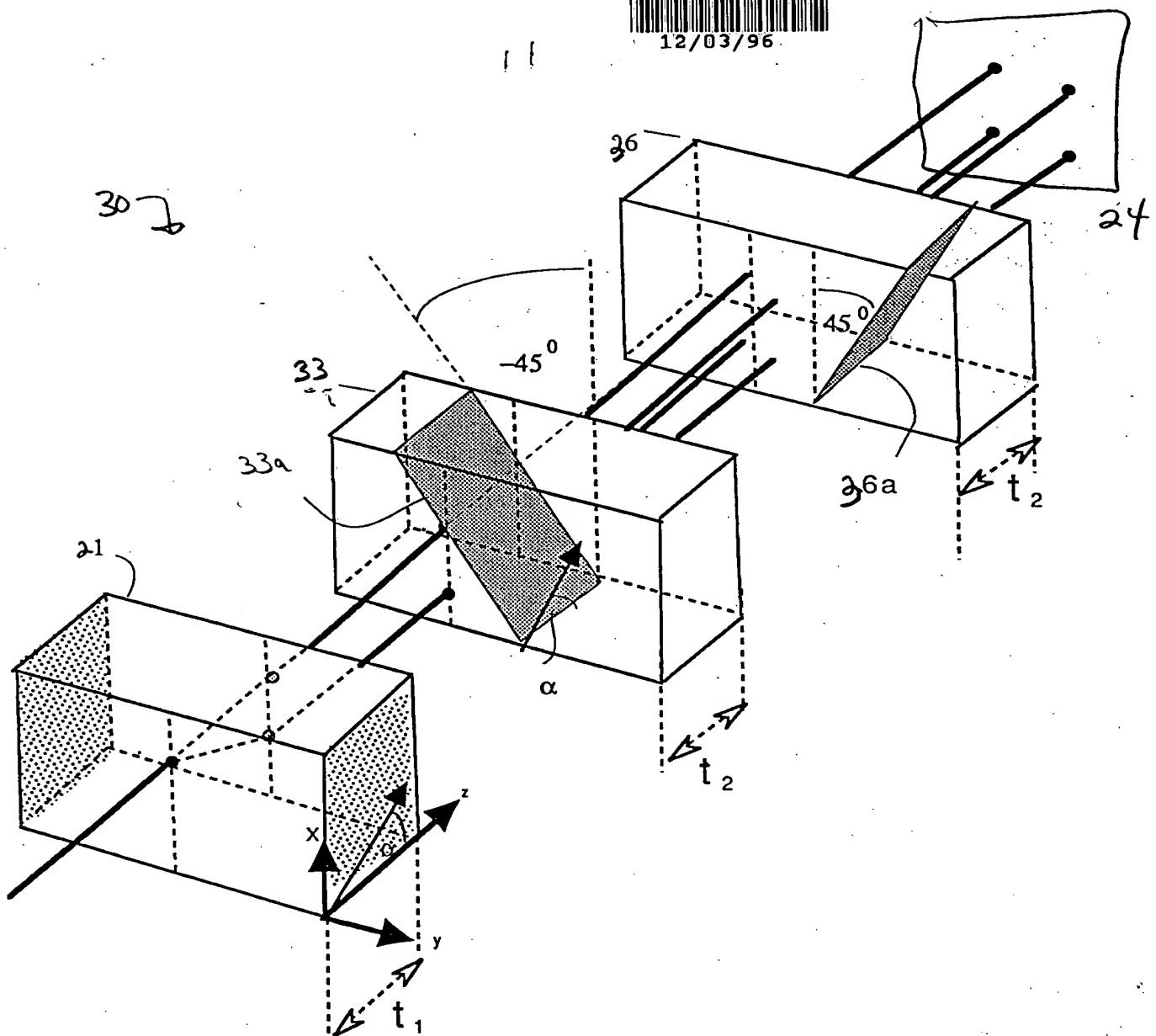


Fig. 2 A square four-spot blur filter according to prior art using two double refractors and a retarder.

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Fig. 3a Another 4 spot filter made of three double refractors

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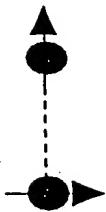


Fig. 3b: The spots at the detector plane when only the first double refractor plate is used (arrows are the polarization directions)

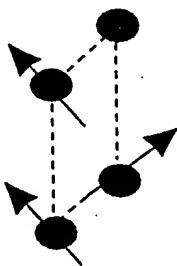


Fig. 3 d: The second double refractor splits at 45 degrees to create 4 spots at the detector plane

Fig. 3c: The spots of 3b and the polarizations(arrows) in the coordinate system of the second double refractor

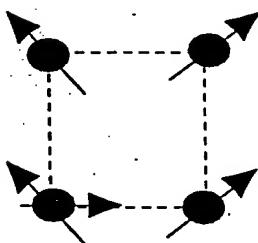


Fig. 3e: the third double refractor shifts two spots into their final location.



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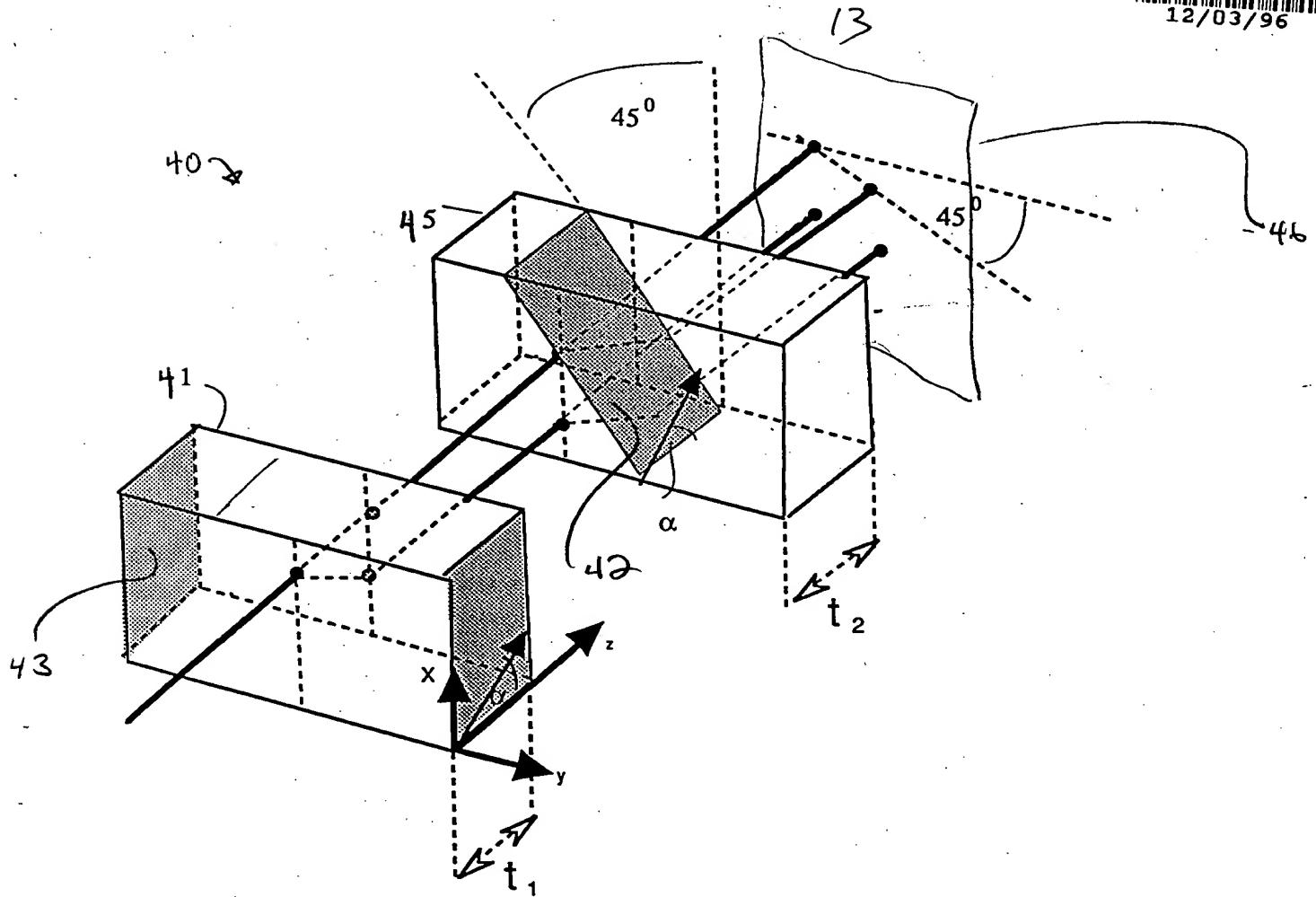


Fig. 4: A rhomboidal four spot filter made of two double refractors.

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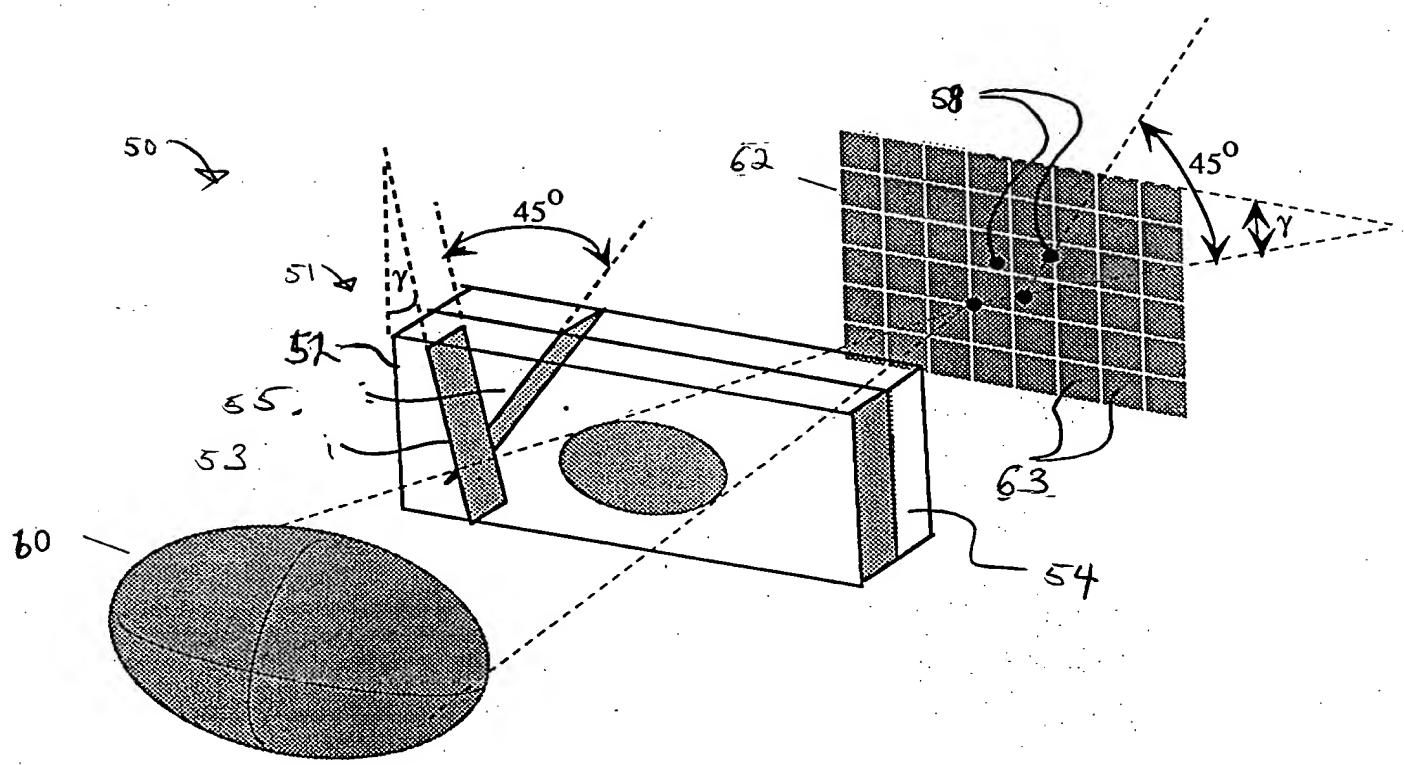


Fig. 5: The use of the rhomboidal filter in a CCD camera